US Army
Corps
of Engineers
New Orleans
District

Beneficial Uses of Dredged Material in Louisiana

New Orleans District
Major Navigational Channels
Mississippi River
Calcasieu
Mermentau
Freshwater Bayou
Wax Lake Outlet
Atchafalaya
GIWW
Houma
Barataria
MR-GO
Baptiste Collette
Tiger Pass
South Pass
Southwest

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Southwest

Coastal Louisiana: Catastrophic Ecosystem Collapse

NEW ORLEANS DISTRICT

Beneficial Use of Dredged Material

1976 - 1985 ~ 3200 acres wetlands

1985 - 2003 ~ 8000 acres wetlands

1976 – 2003 ~ 18,000 acres of created land

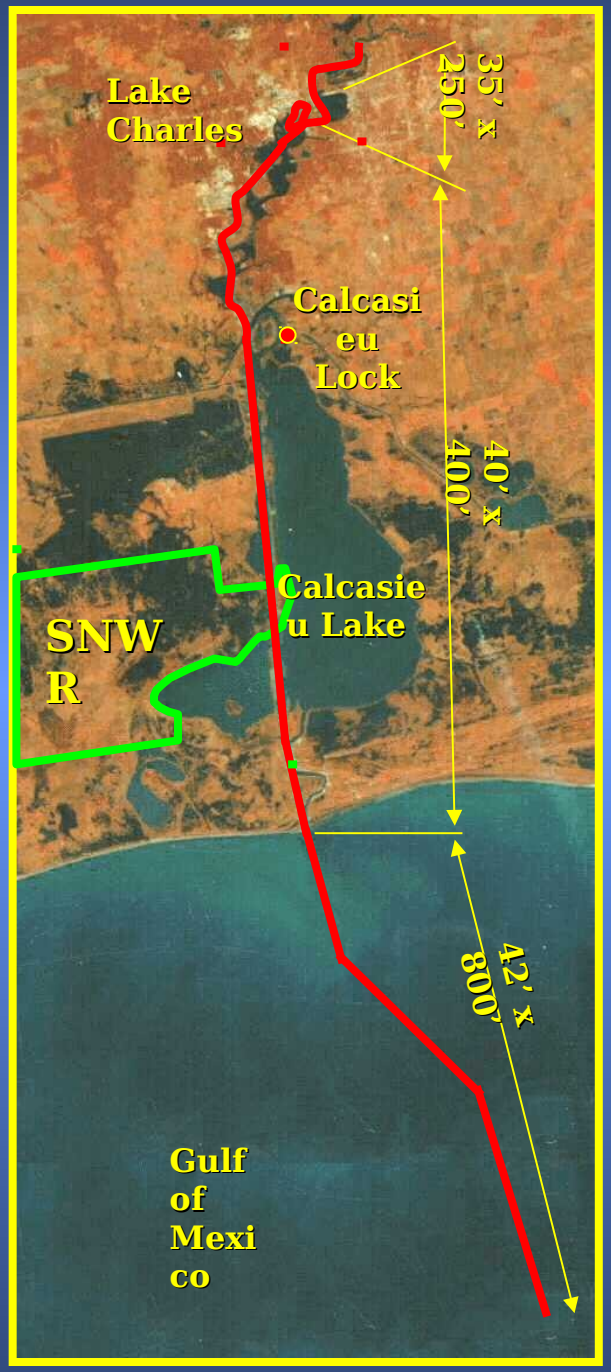
(~ 28 square miles of land)

1. Wetland Restoration
2. Barrier Island Restoration
3. Bird Nesting Habitat

Wetland Restoration

Mississippi River
Calcasieu
Mermentau
Freshwater Bayou
Wax Lake Outlet
Atchafalaya
GIWW
Houma
Barataria
MR-GO
Baptiste Collette
Tiger Pass
South Pass
Southwest

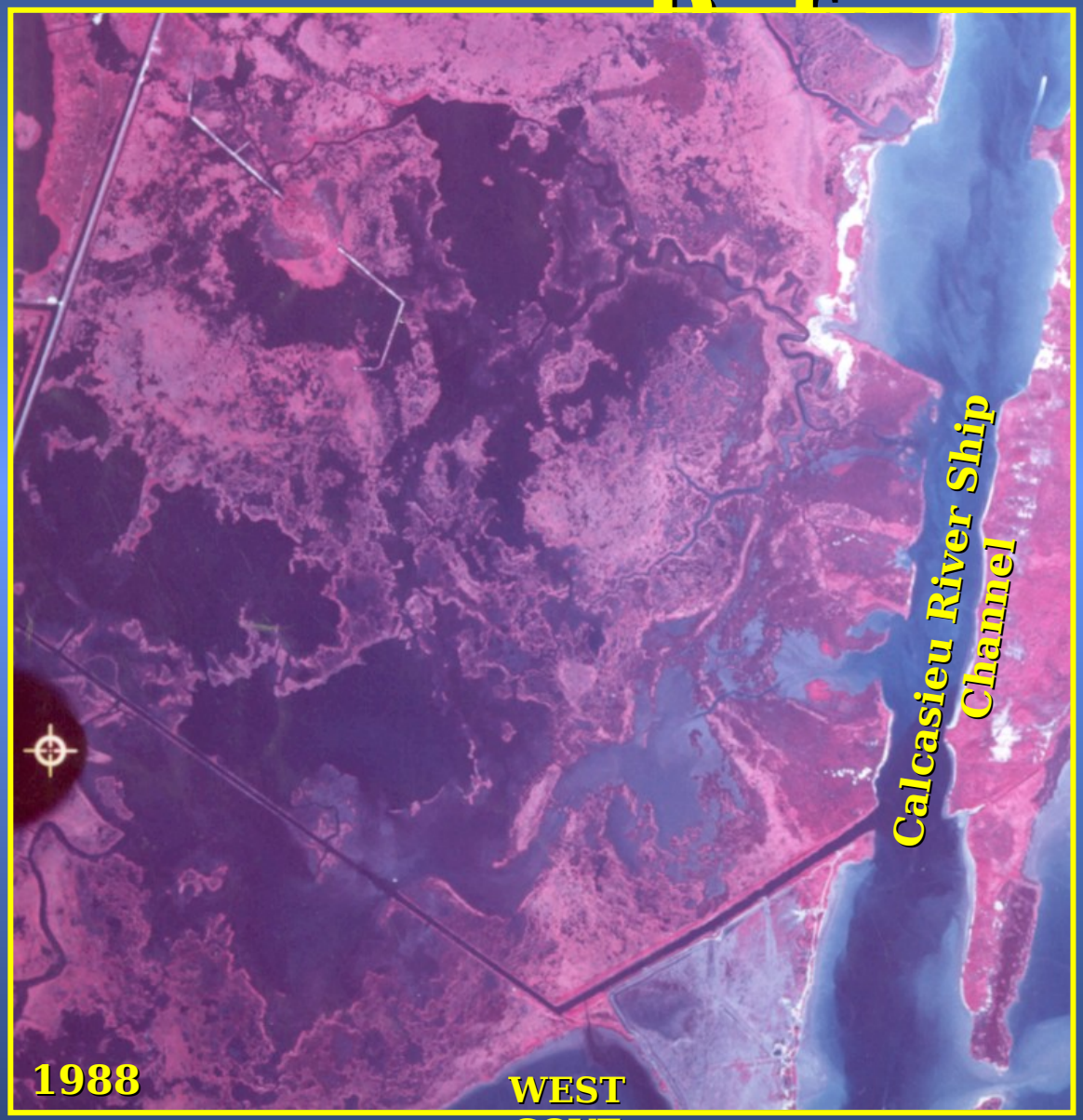
CALCASIEU RIVER and PASS, LA



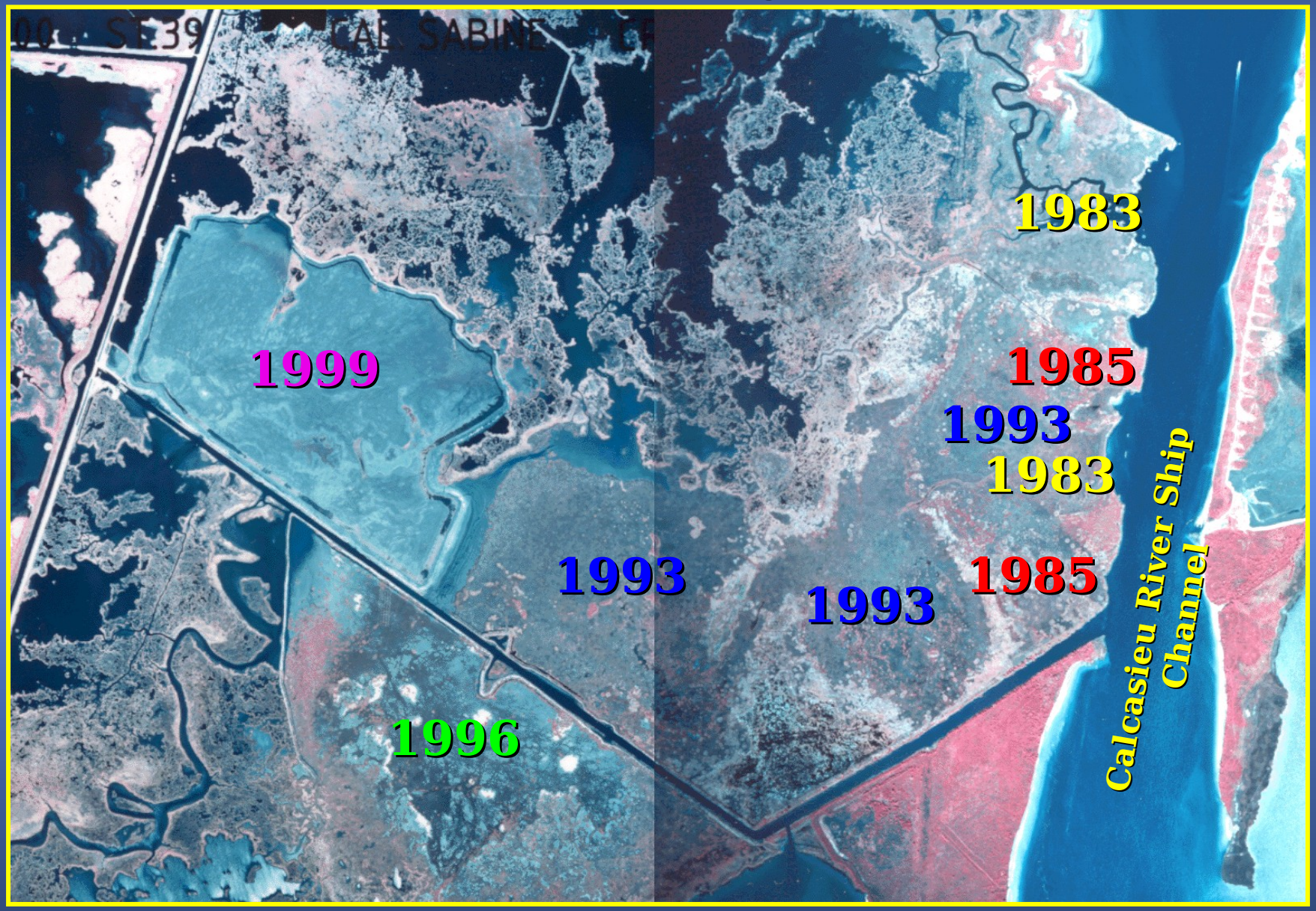
Calcasieu River and Pass Navigational Channel

Sabine National Wildlife Refuge

Sabine National Wildlife Refuge



Calcasieu River and Pass
Sabine National Wildlife Refuge
Beneficial Use of Dredged Material

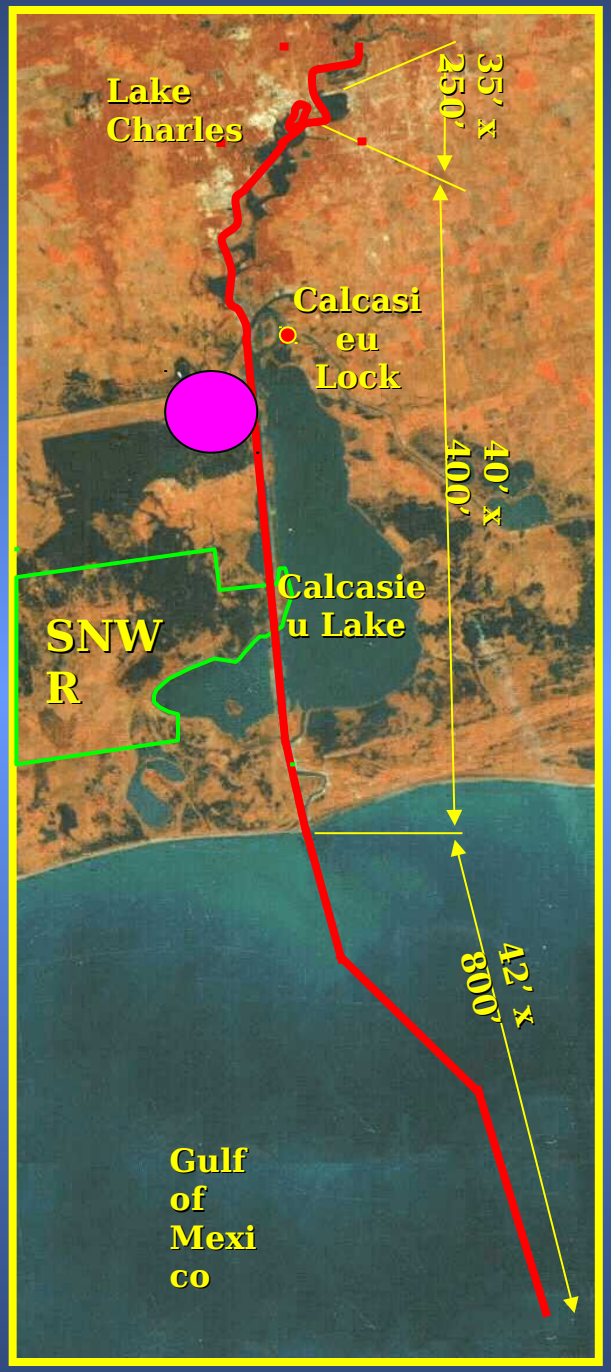


1993

1993 Site (2002 Photography)

1993 Site (2002 Photography)

CALCASIEU RIVER and PASS, LA

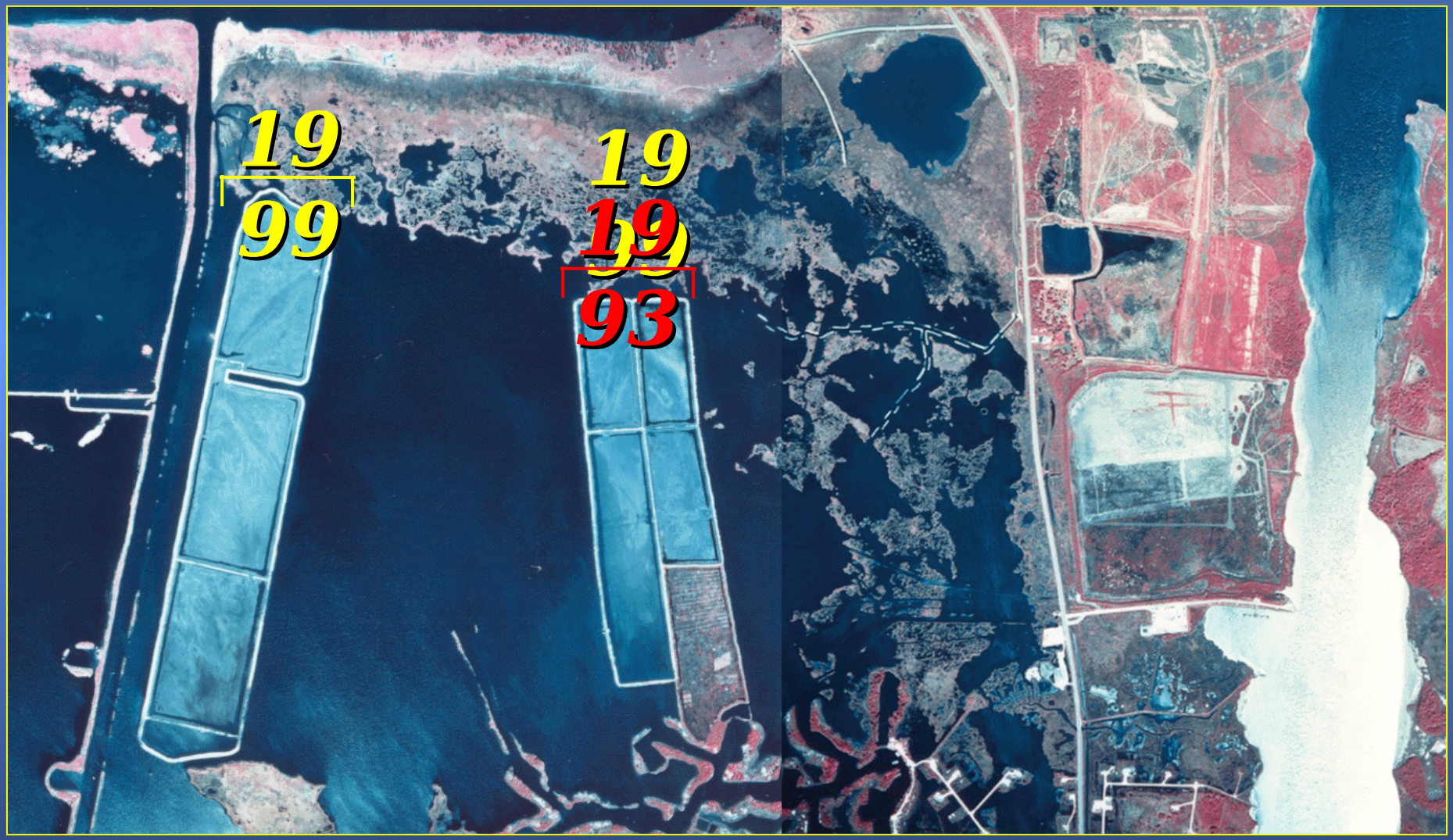


Brown Lake Disposal Area

1948
GIWW
Brow
n
Lake
Calcasieu River Ship
Channel

CALCASIEU RIVER and PASS, LA

Brown's Lake



1993 Site

1999 Site

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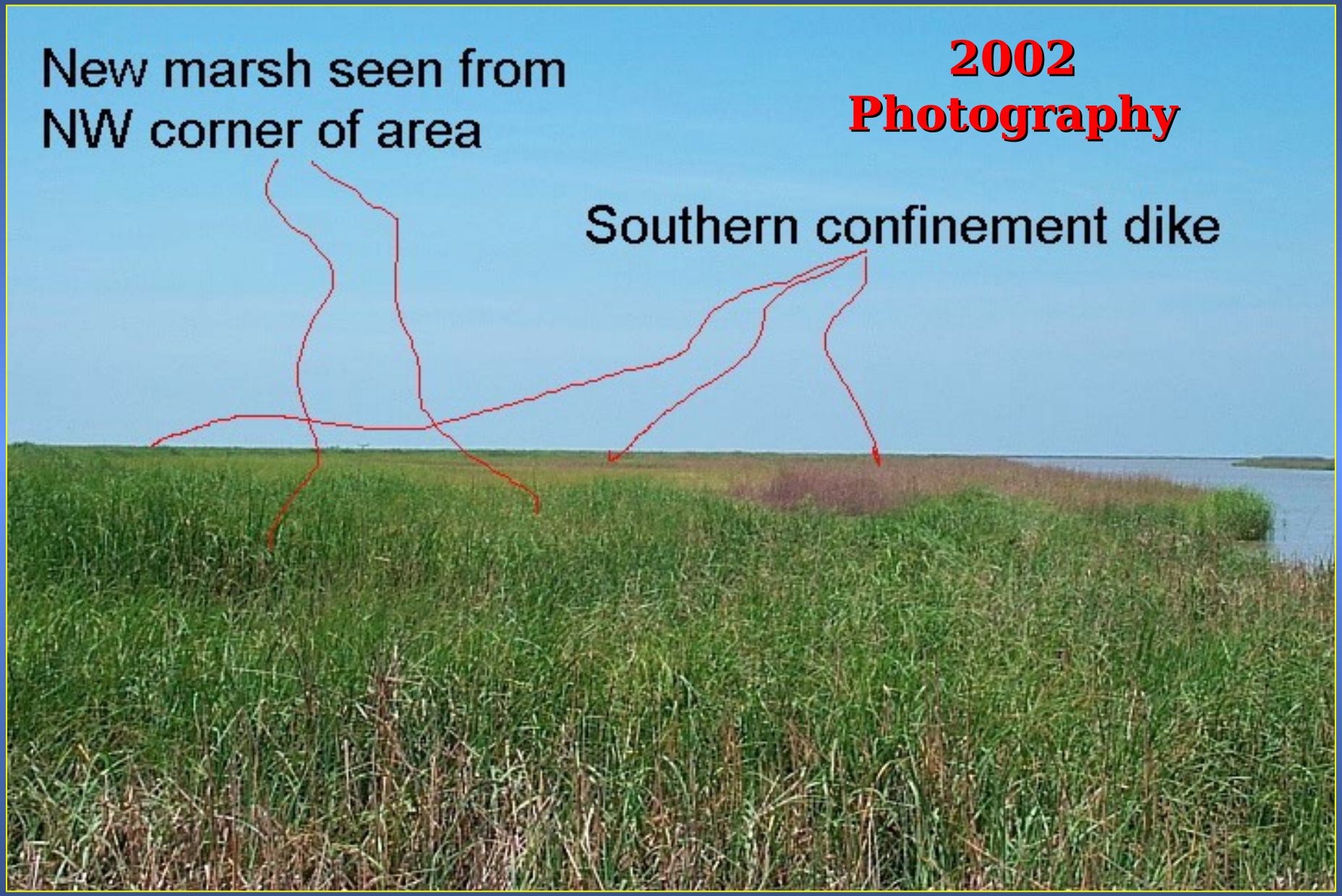
MERMENTAU RIVER

1963 - 2000

2000 Placement Site

80
acres


New marsh seen from
NW corner of area
2002
Photography
Southern confinement dike

Mississippi River
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Mermentau
Freshwater Bayou
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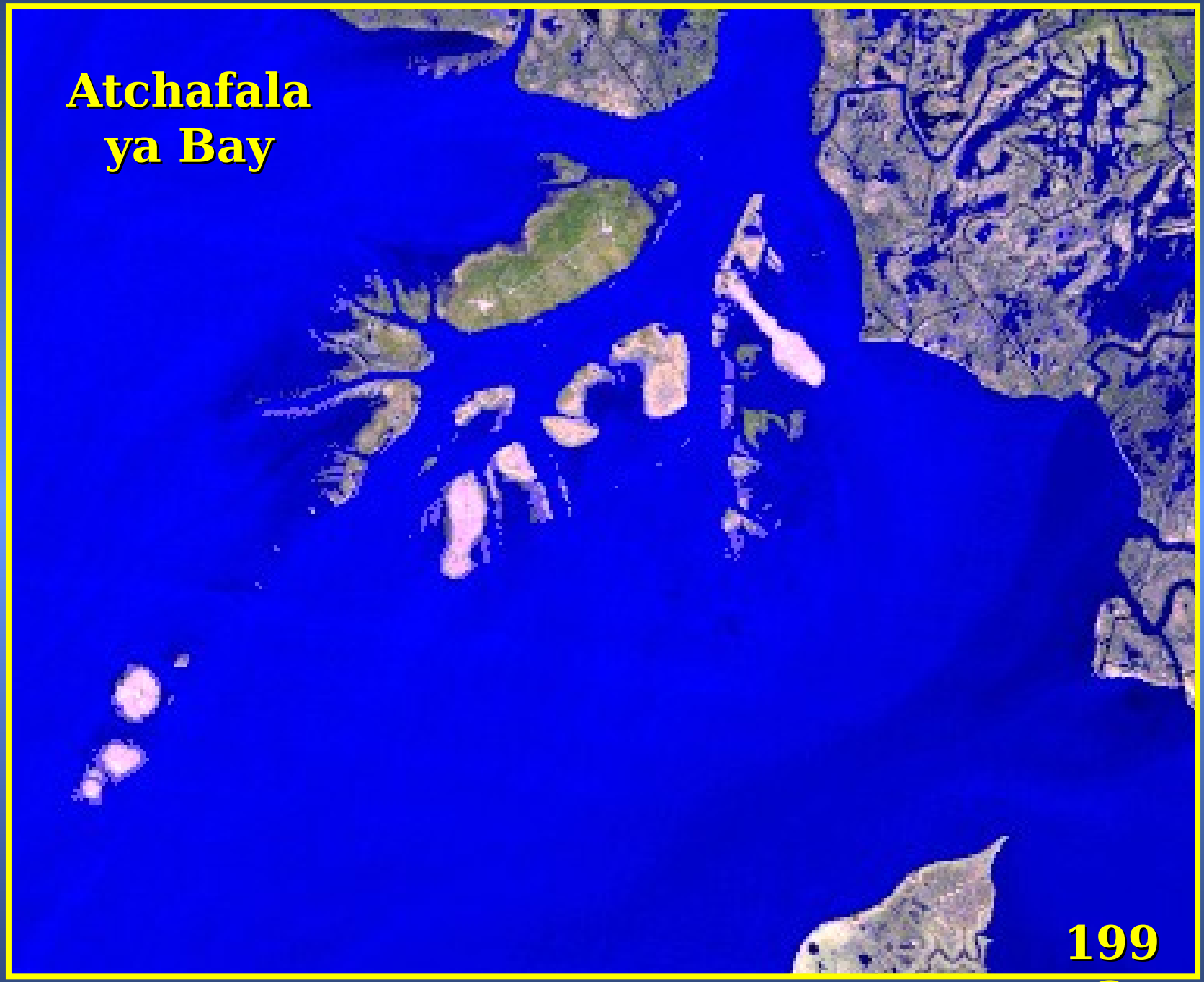
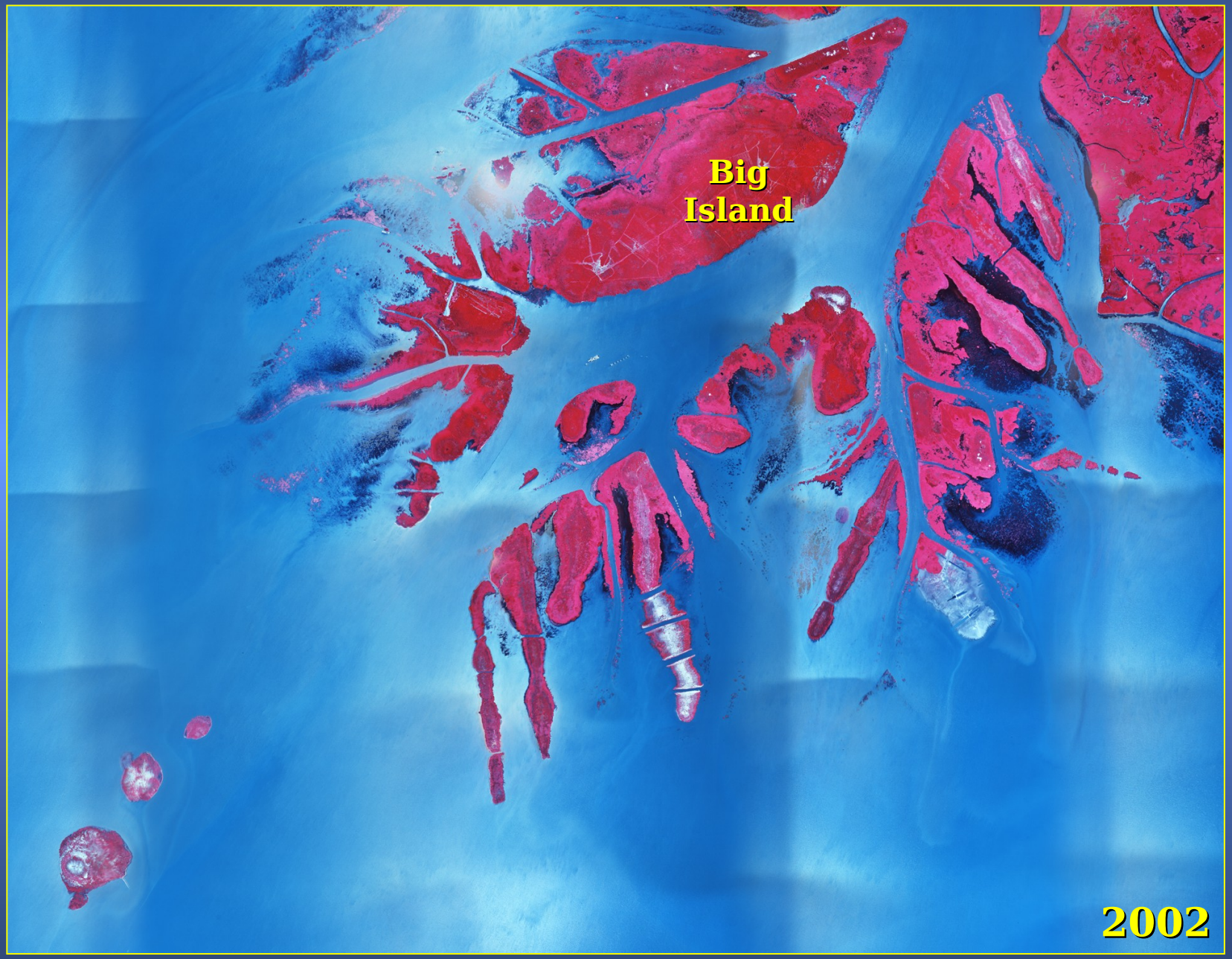
Atchafalaya River Bayous Chene, Boeuf & Black


Atchafala
ya Bay
1992

Atchafalaya Bay
1972

Lower Atchafalaya River - Bay



Atchafalaya Bay – Gap

Atchafalaya Bay 2001

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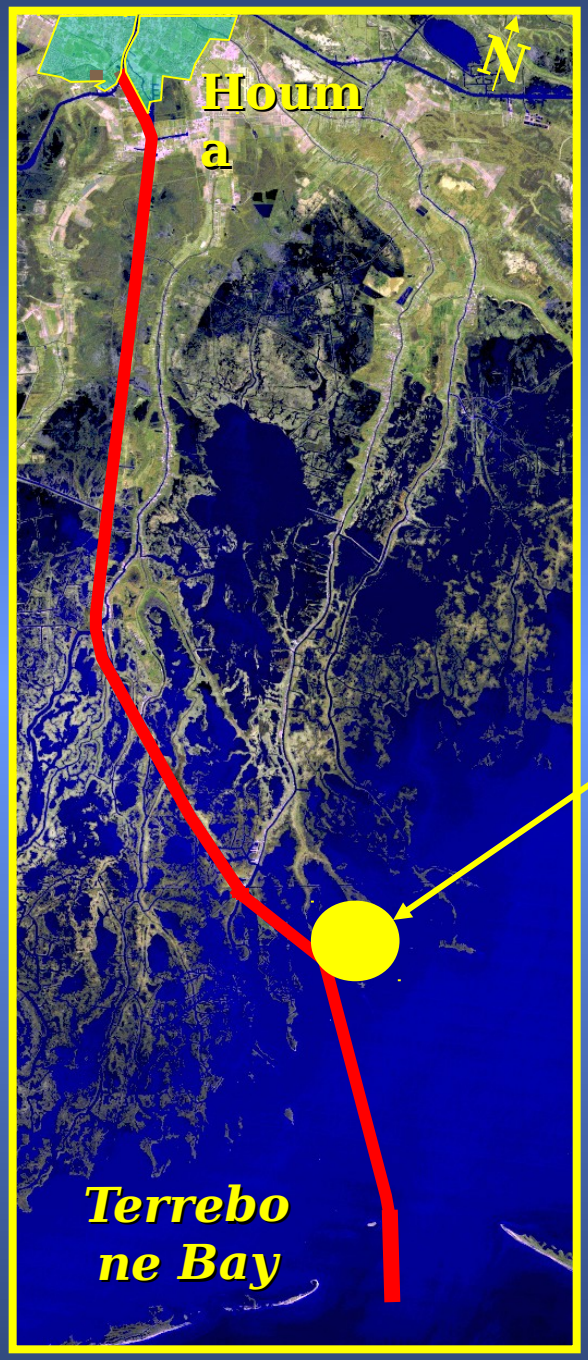

Houma Navigation Canal

Bay Chaland Disposal Area

BAY CHALAND

Marsh Creation Disposal Area

19
91
19
93

Mississippi River
Calcasieu
Mermentau
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GIWW
Houma
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MR-GO
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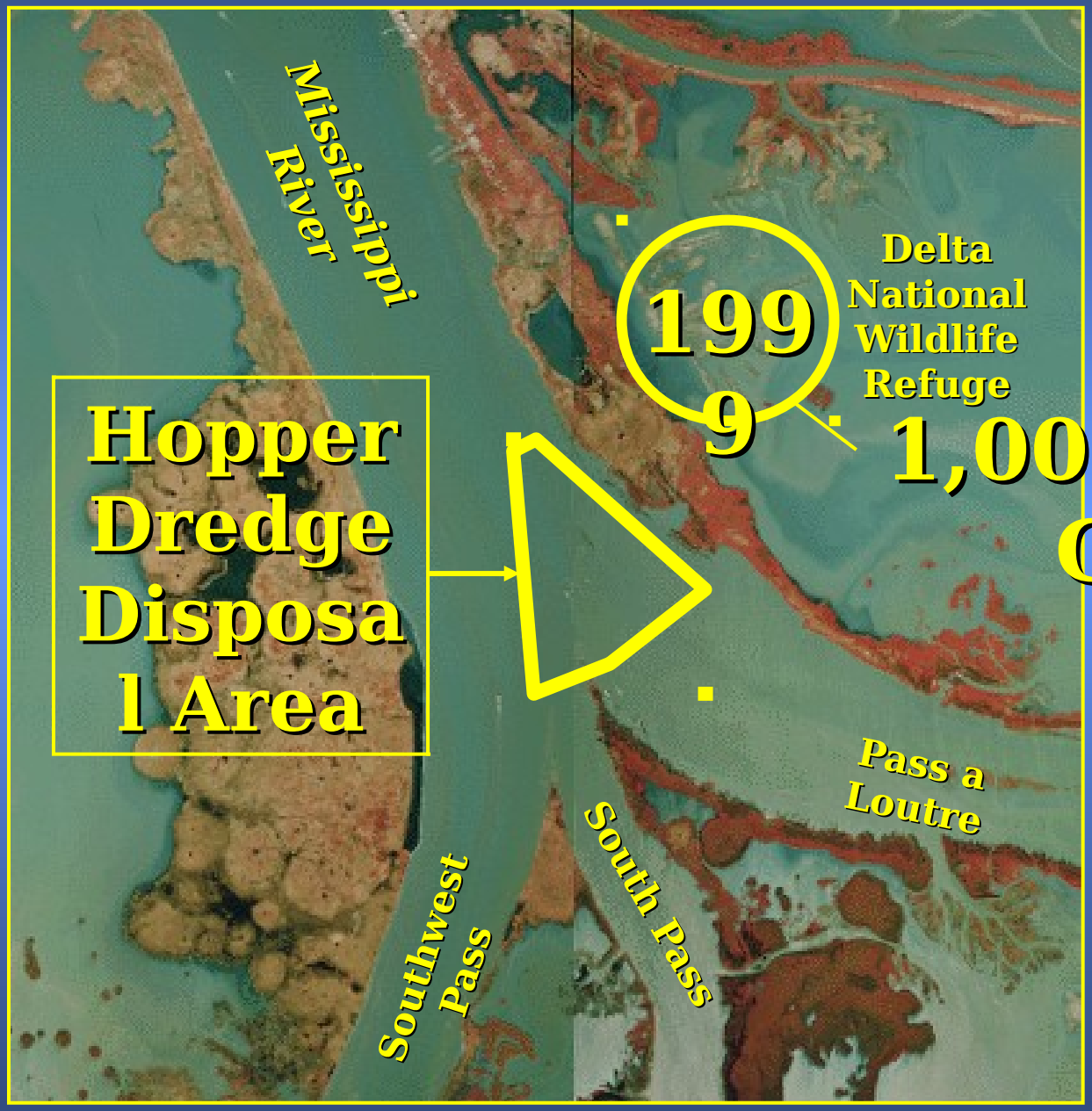
Tiger Pass
South Pass
Southwest Pass

Mississippi River

Southwest Pass

- ~18-20,000,000 CY Removed Annually
- ~2-3,000,000 CY Removed Annually by Cutterhead Dredge
- Over 3,000 acres of new land created since 1975

Mississippi River - Head of Passes



Mississippi River - Southwest Pass Pass-a-Loutre

Beneficial Use Placement Area

1995 Pre-Placement

Post-1999 Placement

1998 Pass-a-Loutre Construction

1998 Pass-a-Loutre Construction

1998 Pass-a-Loutre Construction

1998 Pass-a-Loutre Construction

1998 Pass-a-Loutre Construction

1998 Pass-a-Loutre Construction

Pass-a-Loutre Disposal Area - 2002

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Southwest

Mississippi River-Gulf Outlet, LA
New Orleans
Lake Borgne
36' x 500' Channel
Jetties
Breton Sound
Mississippi River
36' x 500' Channel
Gulf of Mexico

MRGO Inland Segment

Beneficial Use of Dredged Material Sites

~ 450 acres of marsh created in the inland MRGO segment

MRGO Jetties

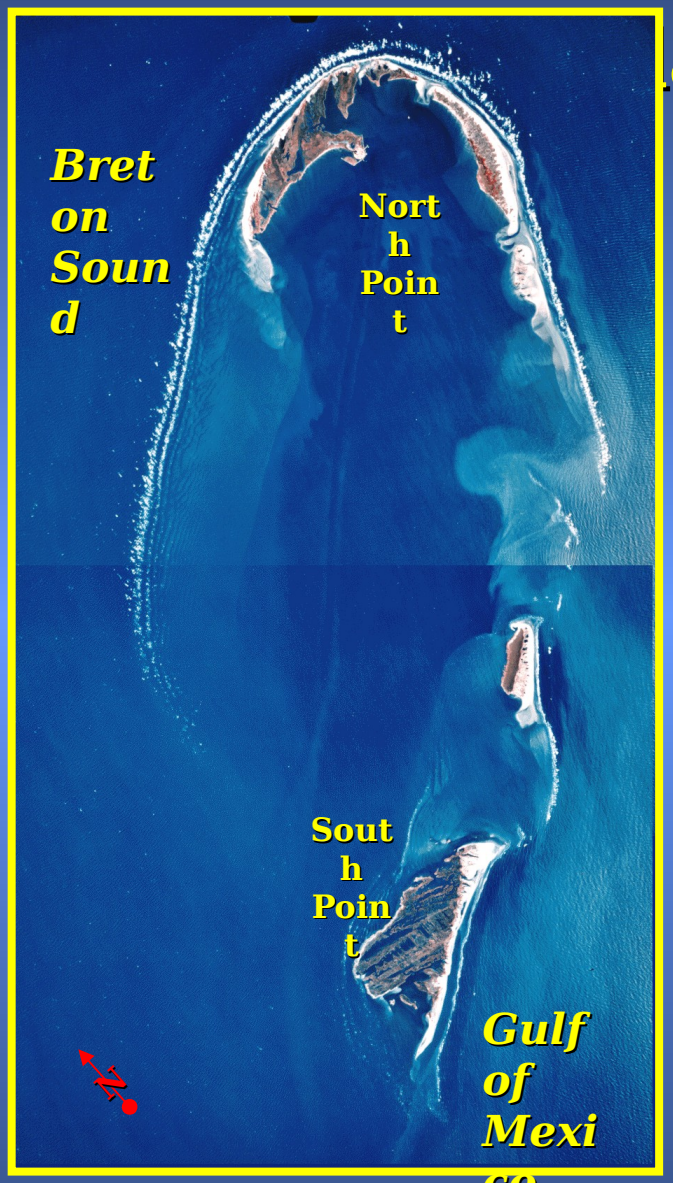
MRGO Jetties
~ 400 acres created

20
00

Barrier Island Restoration

Mississippi River-Gulf Outlet, LA
New Orleans
Lake Borgne
Jetties
Breton Sound
Mississippi River
Breton Island
Gulf of Mexico

Breton
and



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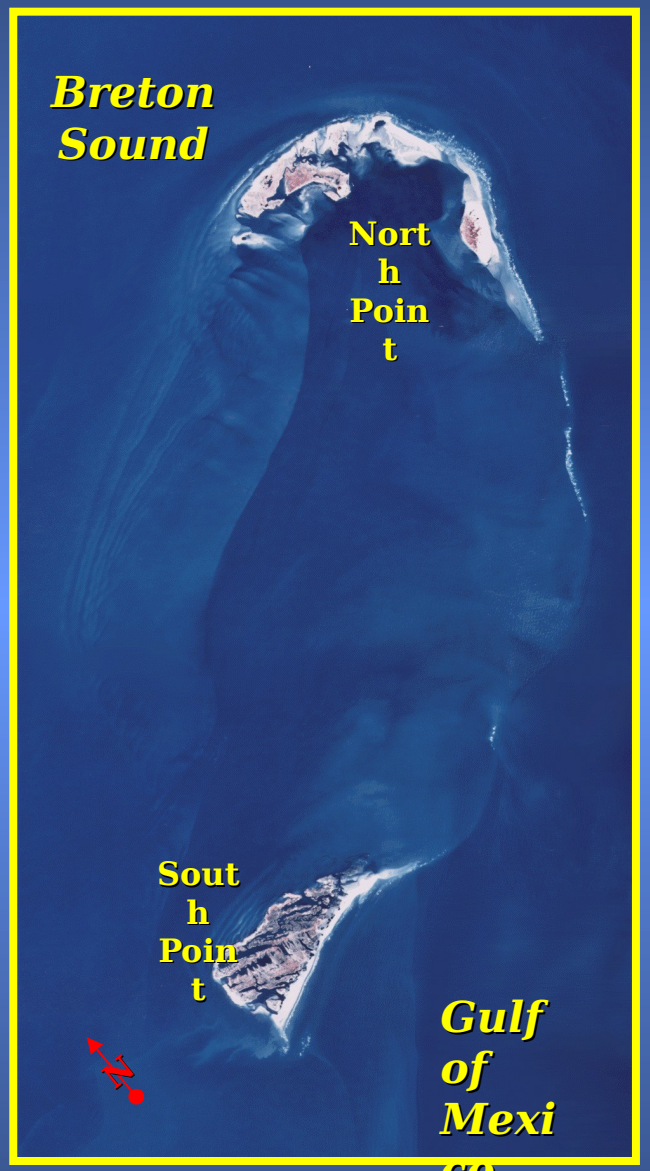


1999 Post-Hurricane Georges

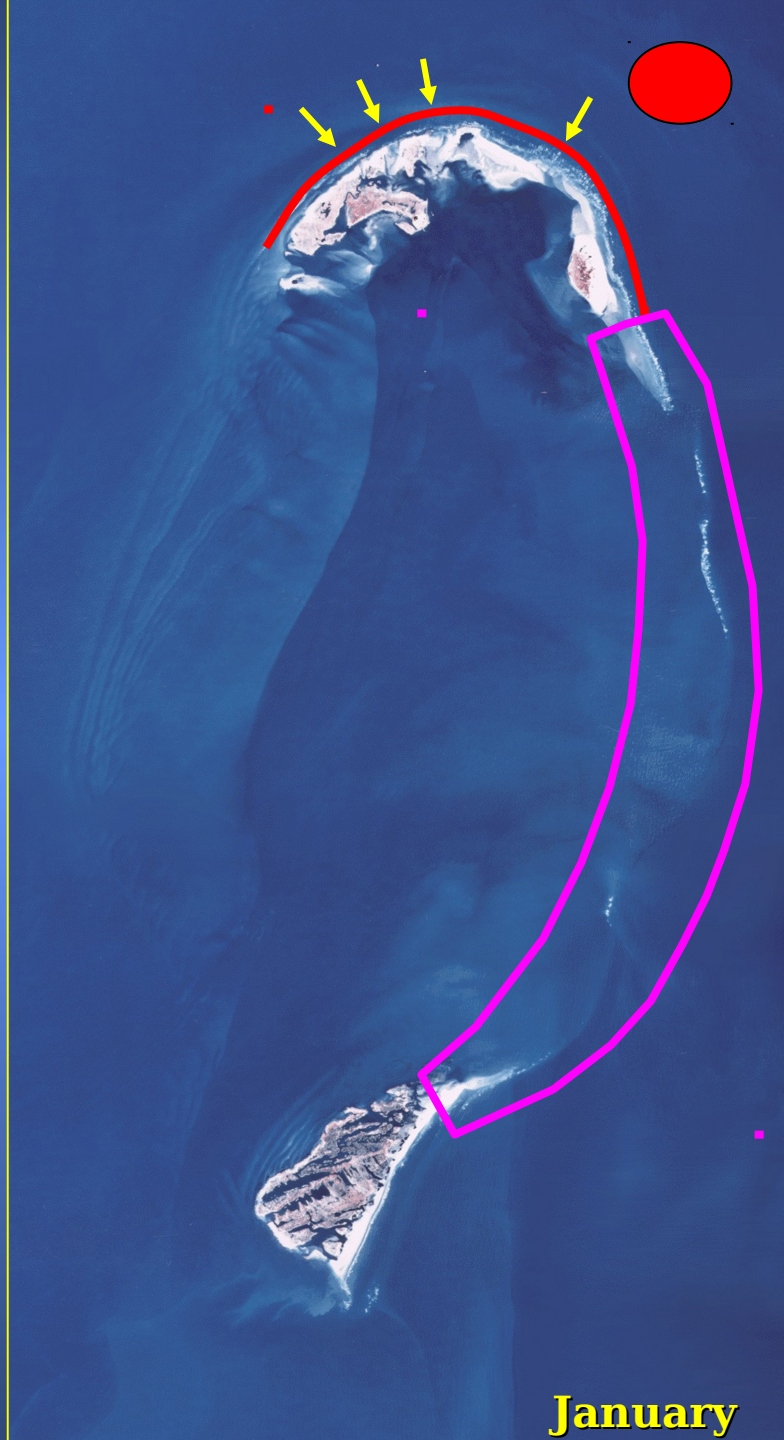
Breton Island Restoration Plan

Phase I – plug breaches in island rim

Phase II – reinforce island's gulf rim

Phase III – restore land bridge

Sacrificial Berm



2001 Placement of Dredged Material

Water Surface Elevation +1.0 ft

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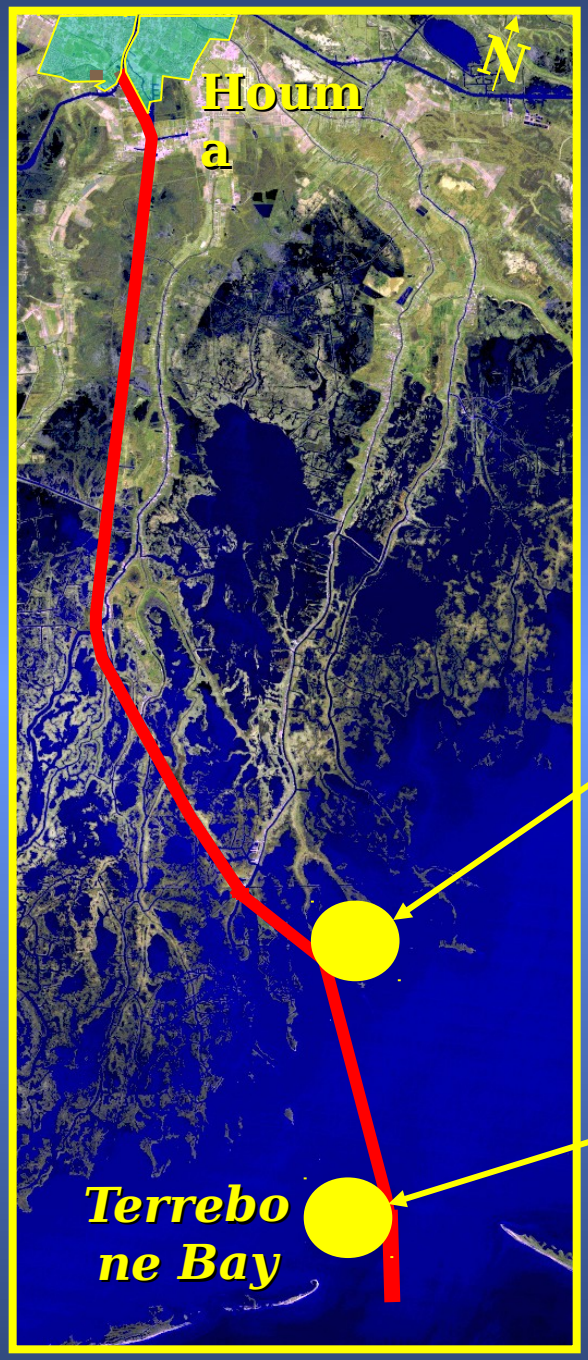

Houma Navigation Canal

Bay Chaland Disposal Area

Wine Island Disposal Area

199
119

Mississippi River
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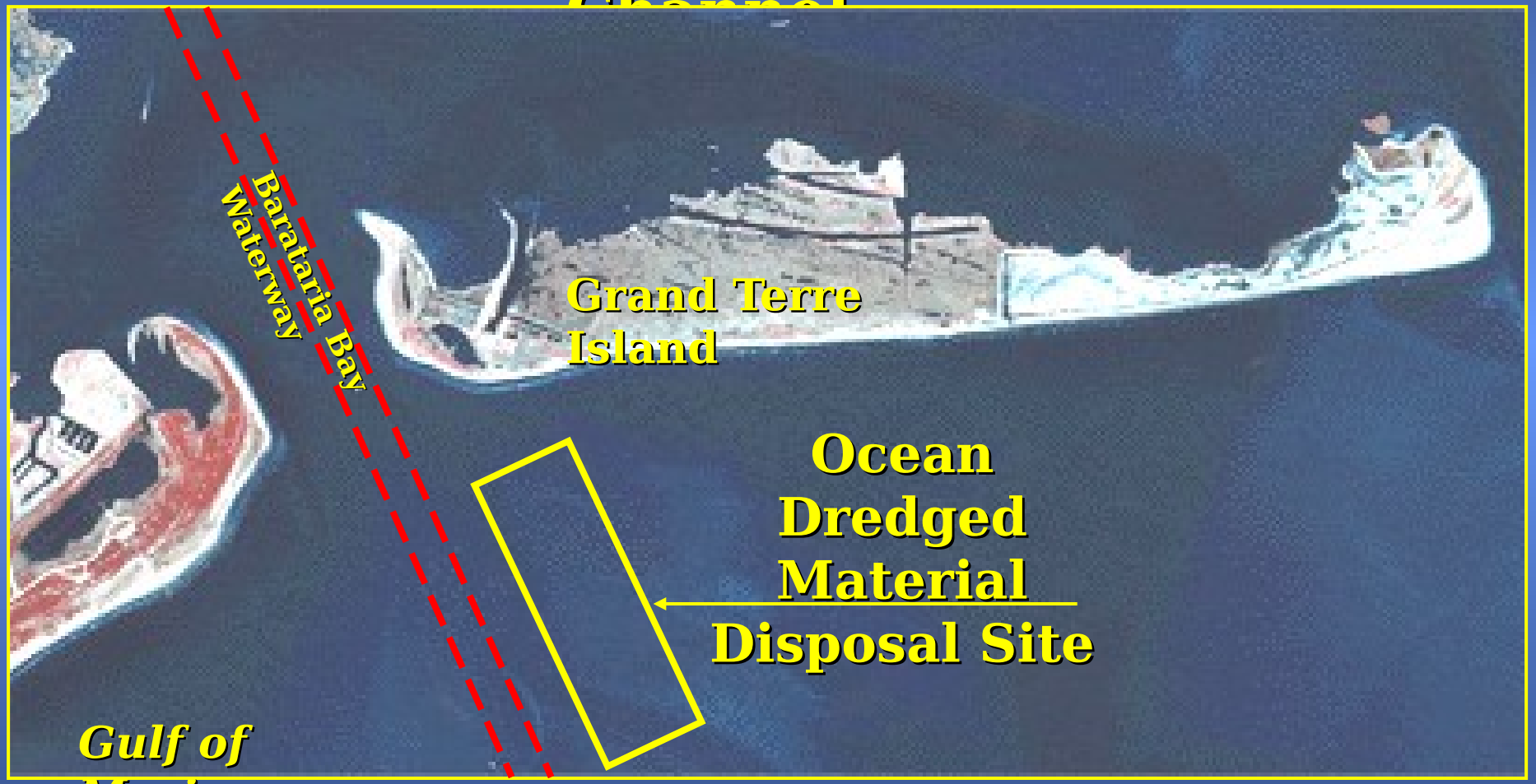
Barataria Bay Waterway, LA



Barataria Bay Waterway

Grand Terre Island

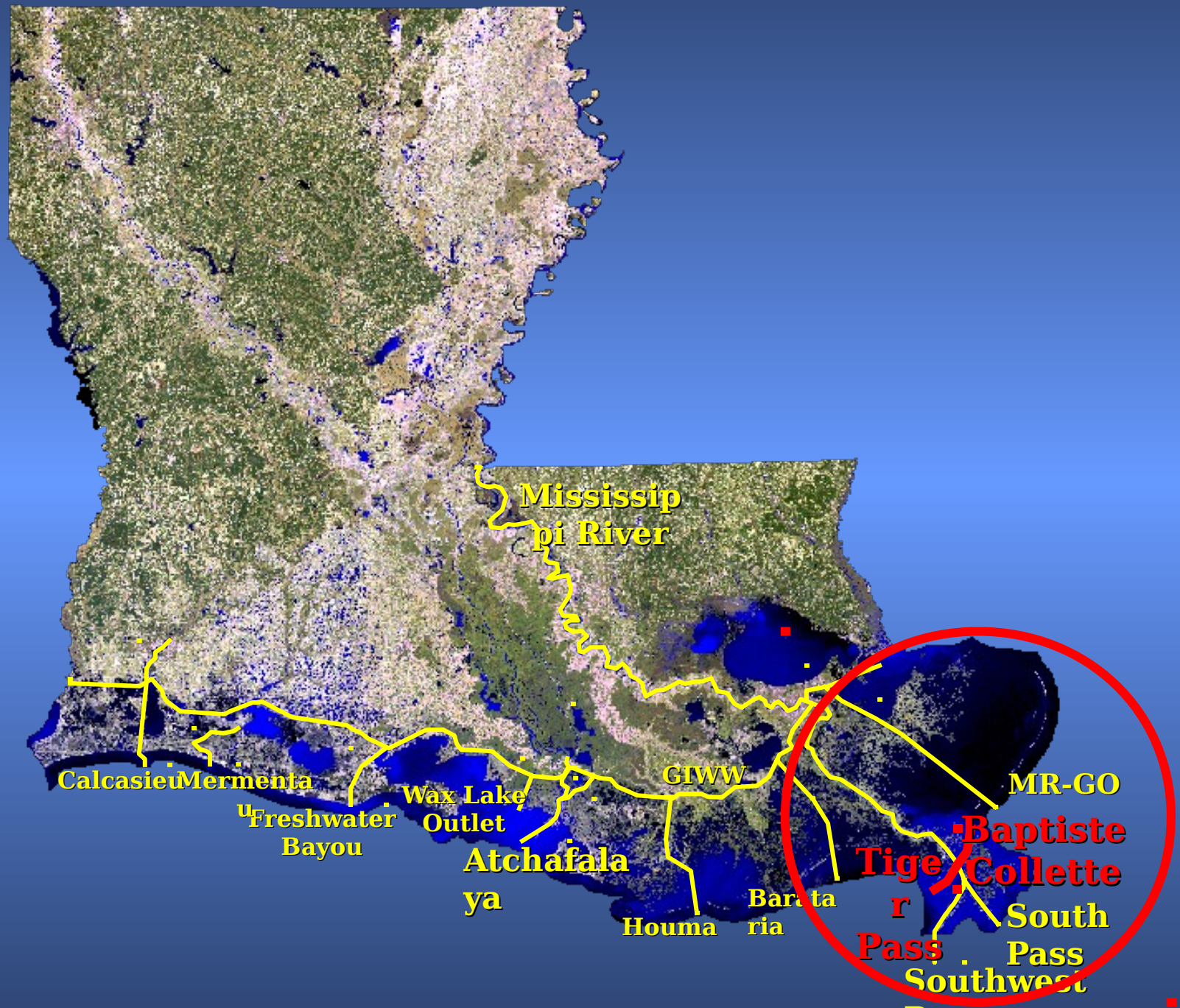
1996 Section 204 (130 acre site)

1999 Section 204 (185 acre site)

Grand Terre Island
Post-1999 Section 204

April 2003

Colonial Nesting Bird Habitat Creation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BAPTISTE COLLETTE Bar Channel

Beneficial Use Since 1978

Marsh on West Side

Bird Islands on East Side

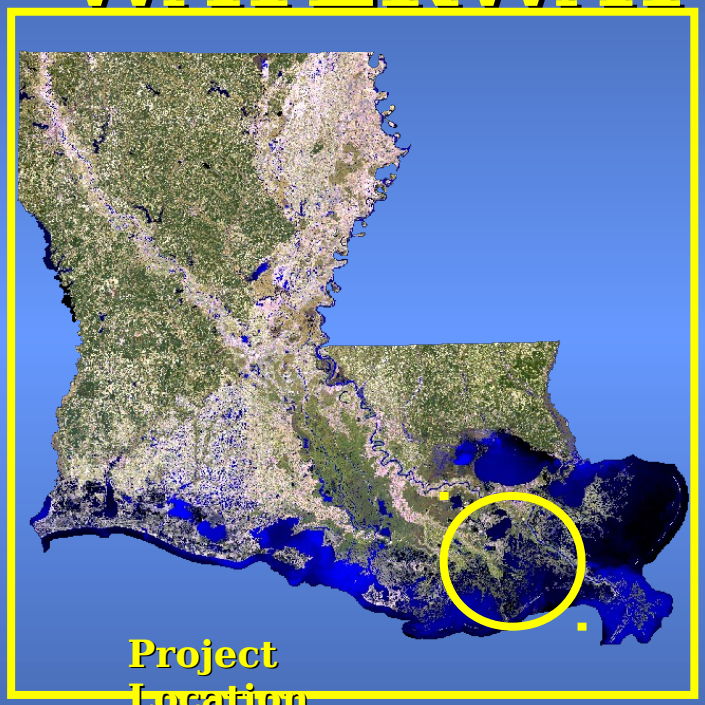
BAPTISTE COLLETTE

East Side Marsh Creation

BAPTISTE COLLETTE

Colonial Nesting Bird Islands

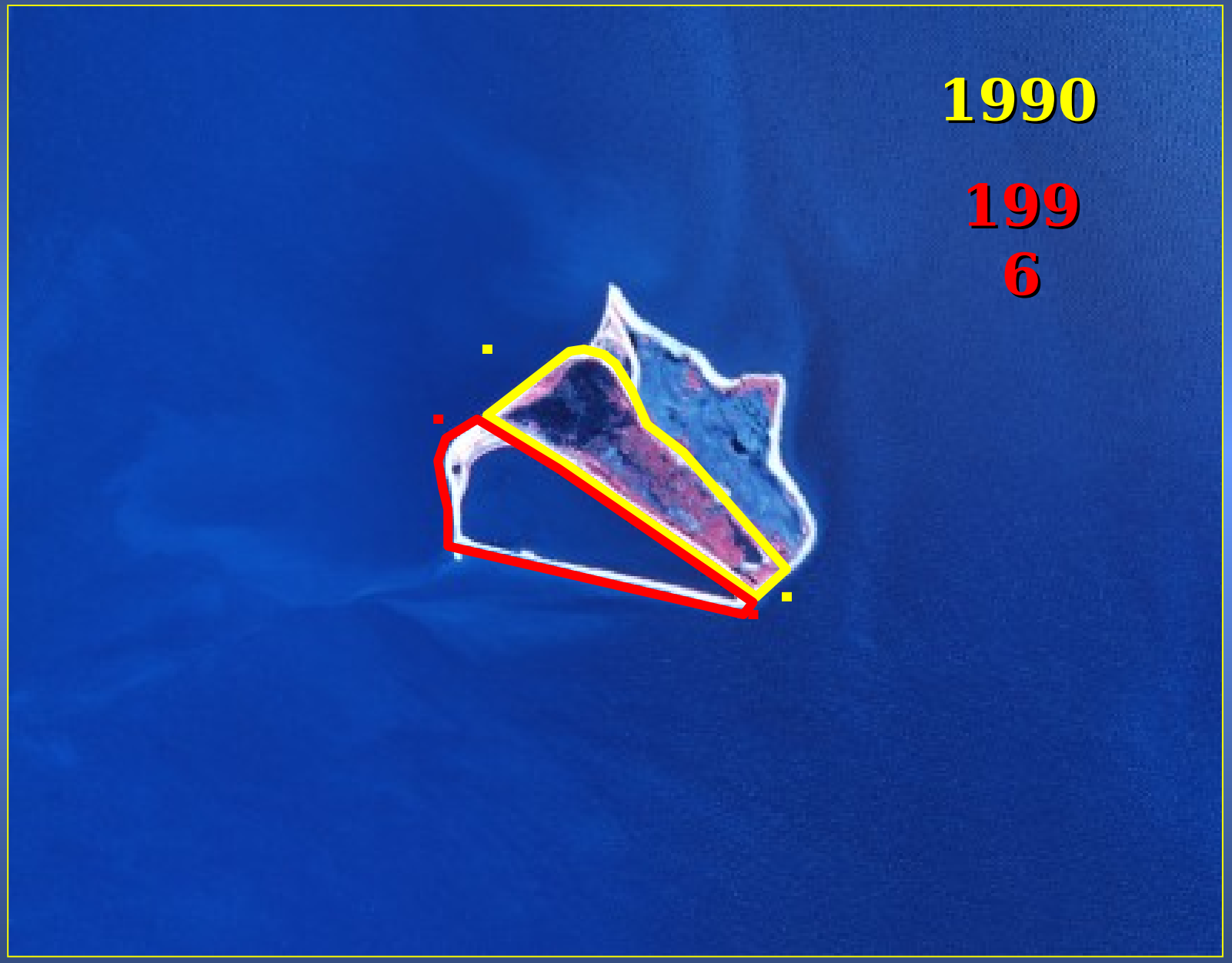
BARATARIA BAY WATERWAY



Barataria Bay Waterway

12' x 125' Mile 36.5 to 0.0 (and Bayou Rigaud) 15' x 250' Mile 0.0 to -3.5

Queen Bess Island



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Atchafalaya River Bayous Chene, Boeuf & Black

Lower Atchafalaya River - Bay